ETA	Overcurrent Circuit Breaker thermal and magnetic trip characteristic 2210-.T.	Data Sheet 410.073.270 sheet 1 of 16

Ers. f. gl. Nr. v. 26.6.89

ORIGINAL

Technical Data:

Voltage rating:	AC 250 V; DC 65 V;3AC 415 V
Current rating range: main circuit	0.05...16 (0.05...16) A
Standard current rating range:	0.1 0.2 0.3 0.4 0.5 0.6 0.8 1 1.5 2 2.5 3 4 5 6 8 10 12 16 A
Current rating:auxil.circuit:	1 A resistive load
Protection class: (VDE 0631/DIN 40014)	II (to mounting drawing sheet 12/14/16 fig.2)
Environmental protection: (DIN 40050)	operating area IP 30 terminal area IP 00
Test class:(VDE 0631,10.4)	I > 10 000 operating cycles at 1xI_N
Mech.life:	> 20 000 operating cycles
Temperature range: (VDE 0631)	0...55°C
Comparative Tracking Index:	CTI 400
Insulation group:(VDE 0110) operating area:	C AC 250 V;test voltage AC 4000 V (double insulation to VDE 0631)
mounting area:	C AC 250 V;test voltage AC 2000 V
betw.main and auxil. circuit:	C AC 250 V;test voltage AC 2000 V
betw.auxil.circuits 11-12/23-24:	A AC 250 V;test voltage AC 1000 V
betw. main circuits:	C AC 415 V;test voltage AC 3500 V
Insulation resistance:	> 100 MΩ (DC 500 V)
Ultimate trip:(at 23°C)	see time/current characteristic curve, sheet 3 to 11
Rupture capacity:character.T2: characteristic F1,M1,M3,T1:	0.1...16A 15xI_N } (>3 operating cycles 0.1...5 A 400 A } CO-OCO-OCO) 6..16 A 800 A } at cos φ =0.95 or L/R=2.5 ms
Vibration:	F1 characteristic: 3 g (57-500 Hz), ±0.23 mm (10-57 Hz) M1,M3,T1,T2 characteristic: 5 g (57-500 Hz), ±0.38 mm (10-57 Hz) test to IEC 68-2-6 test Fc (10 frequency cycles)
Shock resistance:	F1 characteristic: 25 g (11 ms) shock direction 1 to 5 10 g (11 ms) shock direction 6

M1,M3,T1,T2 characteristic:
25 g (11 ms) shock direction 1 to 5
20 g (11 ms) shock direction 6
see sheet 12/14 fig.3
test to IEC 68-2-27 test Ea

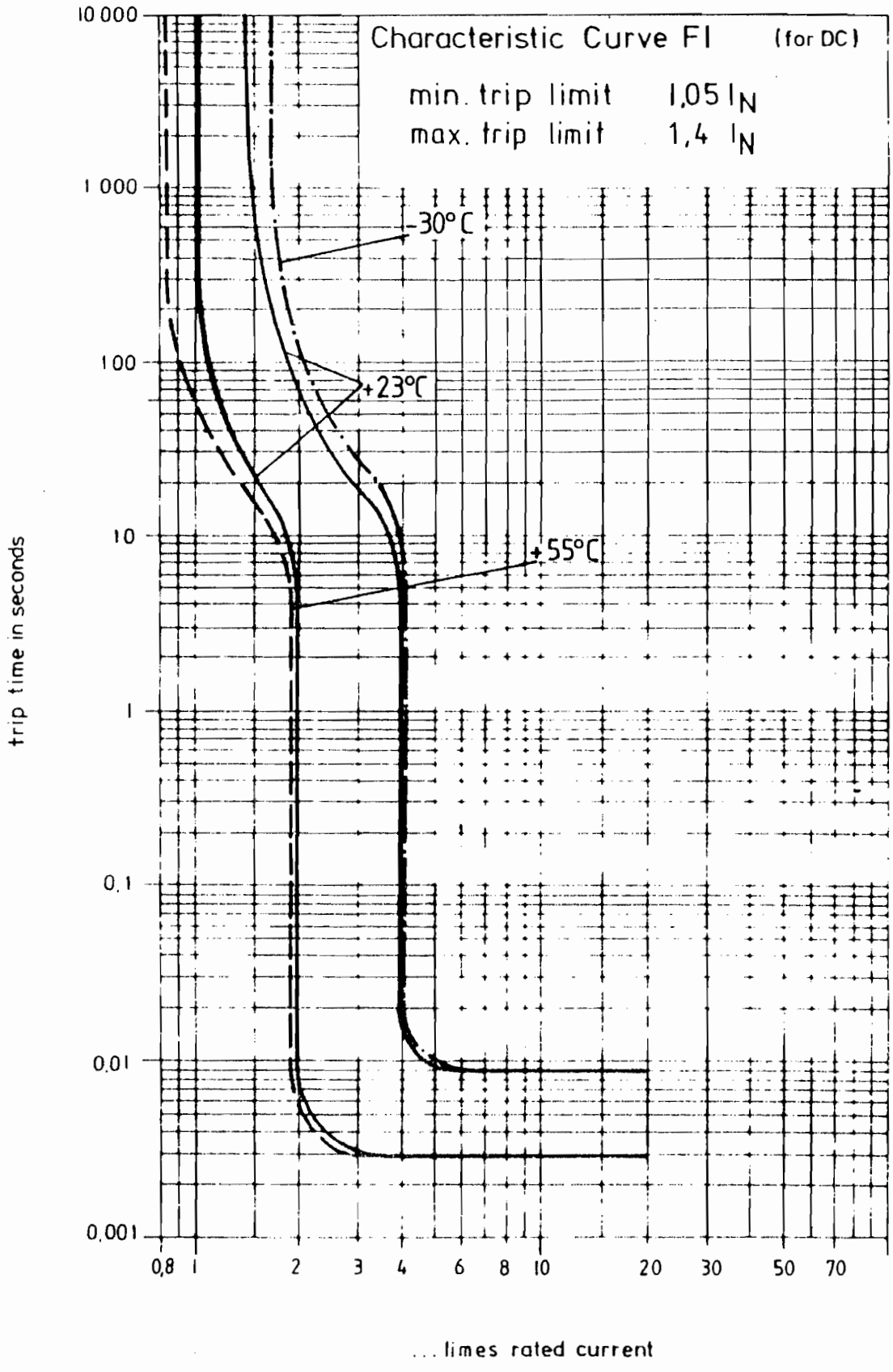
Corrosion resistance: 96 hours at 5% saltspray
test to IEC 68-2-11 test Ka

Humidity: 240 hours at 95% RH at +40°C
test to IEC 68-2-3 test C

Multipole combinations are suitable for use in 240/415 V mains.
(Voltage towards ground: 250 V max.)

410.053.212

0,05 - 16 A

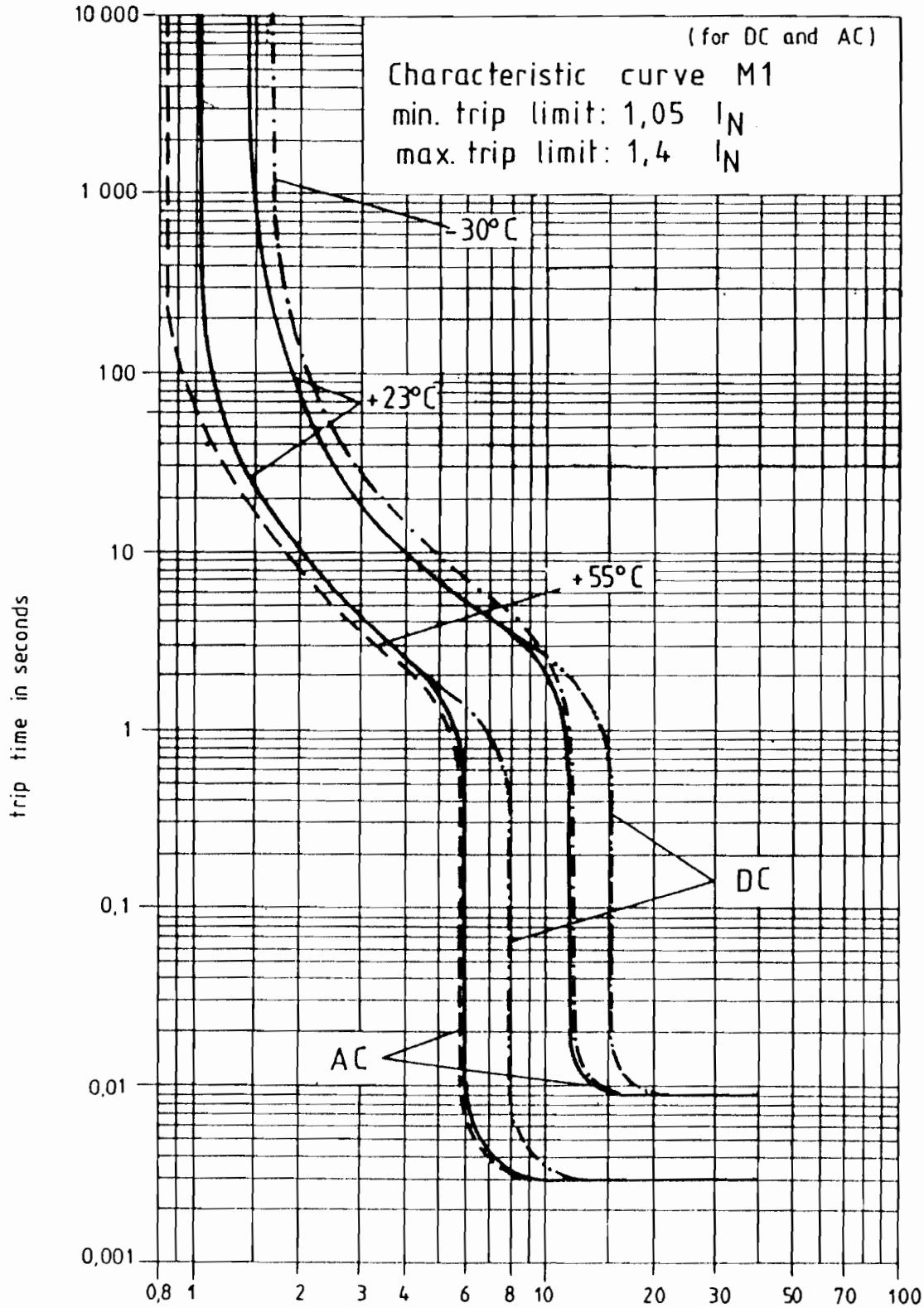


E-T-A	Overcurrent Circuit Breaker thermal and magnetic trip characteristic 2210-...	Data Sheet 410.073.270 sheet 4 of 16

410.053.215 Bl.1

rated value : 0,05 - 7,5 A

Ers.f.gl.Nr. v. 25.7.83



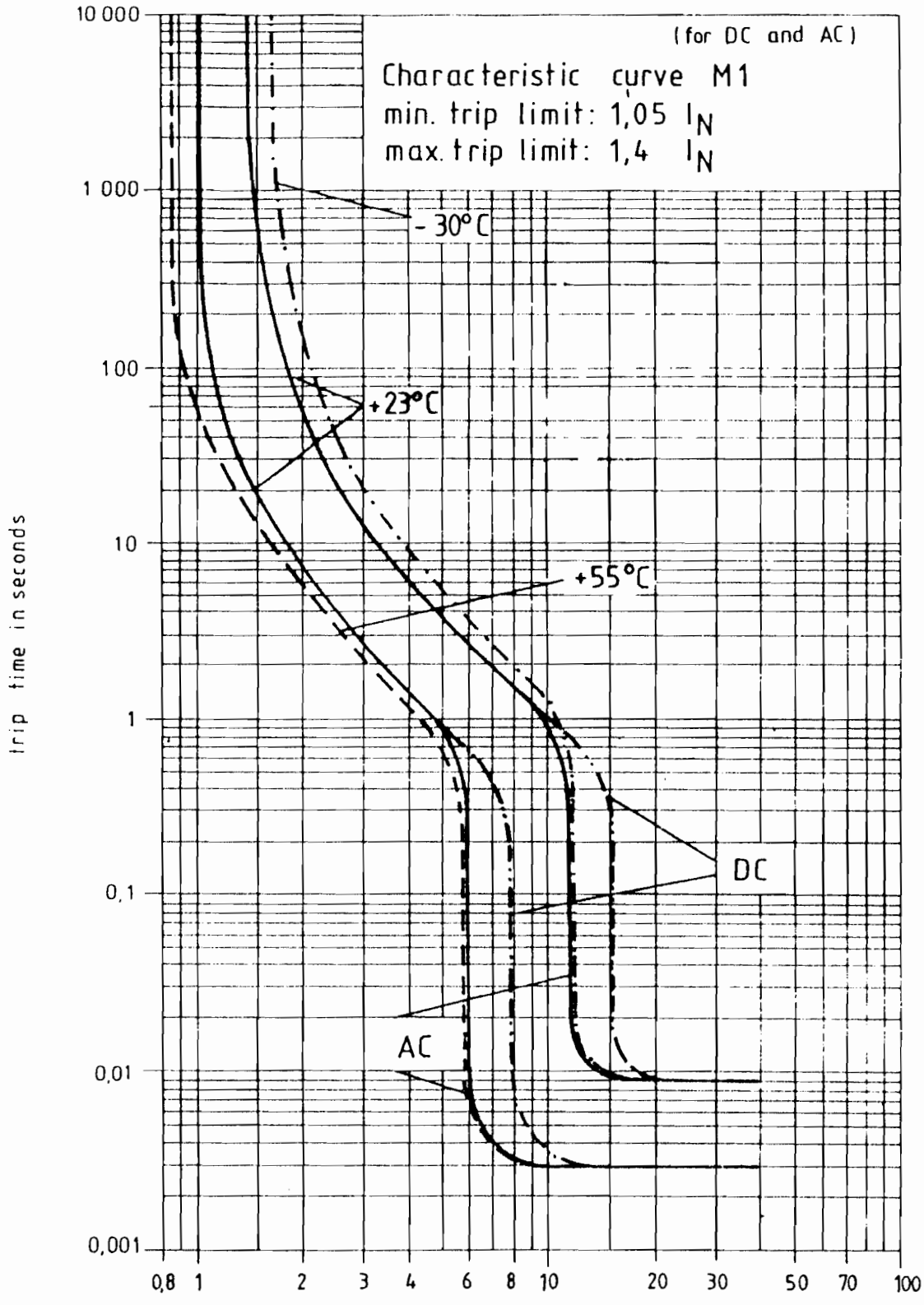
g	AM 12614	26.6.89 dcl	d	Bl. 1,5,6,7,8	24.3.86 du	E-T-A Elektrotechnische Apparate G.m.b.H.

E-T-A	Overcurrent Circuit Breaker thermal and magnetic trip characteristic 2210-...	Data Sheet 410.073.270 sheet 5 of 16

410.053.215 Bl.2

rated value: 8 - 16 A

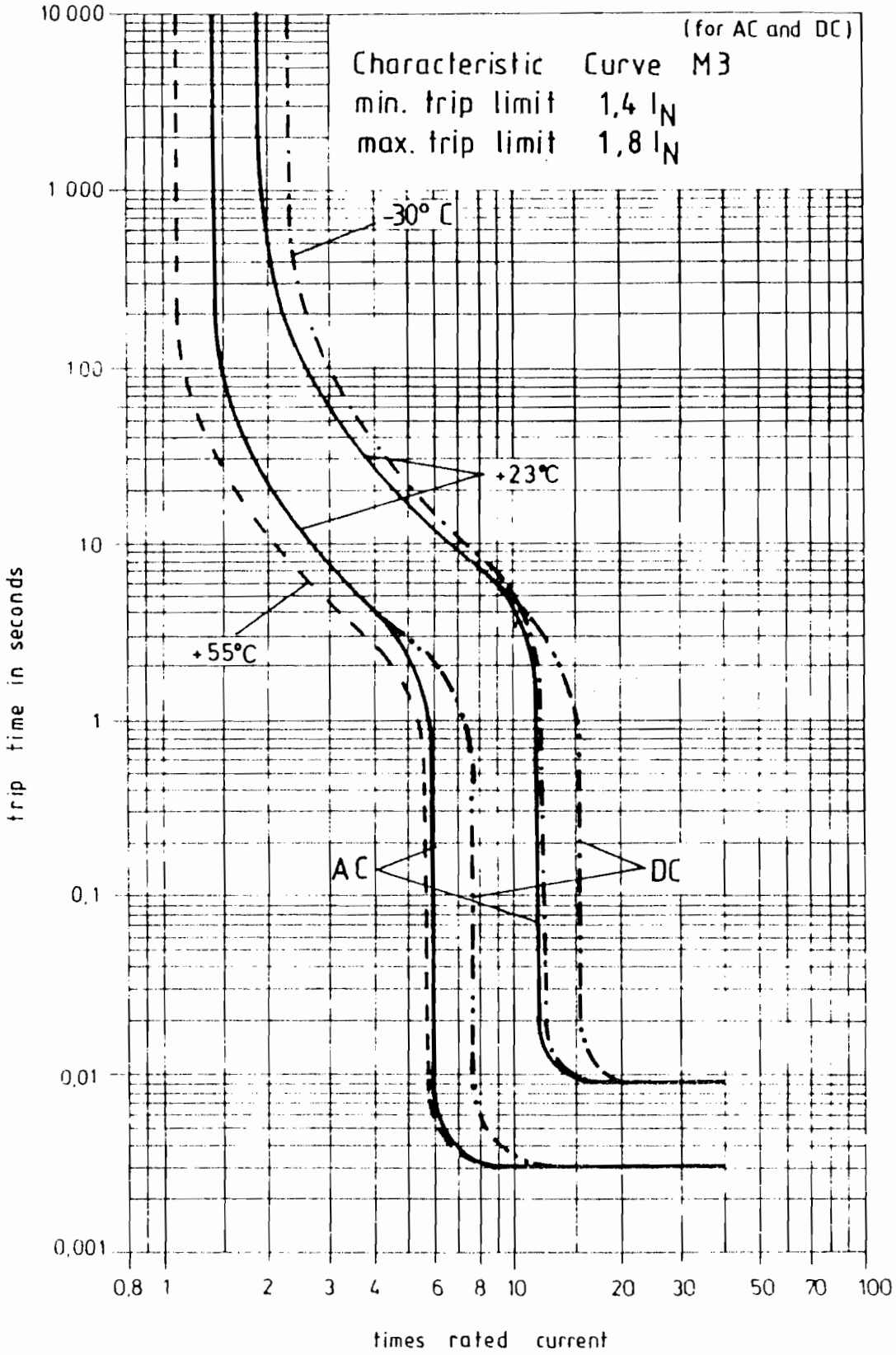
Ers. f. gl. Nr. v. 25.7.83



g	ÄM12614	26.6.89	d	Bl.1,5,6,7,8	24.3.86	E-T-A Elektrotechnische Apparate G.m.b.H.
b	Bl.1,2,4,5	19.4.89		ÄM11656	6.11.86	

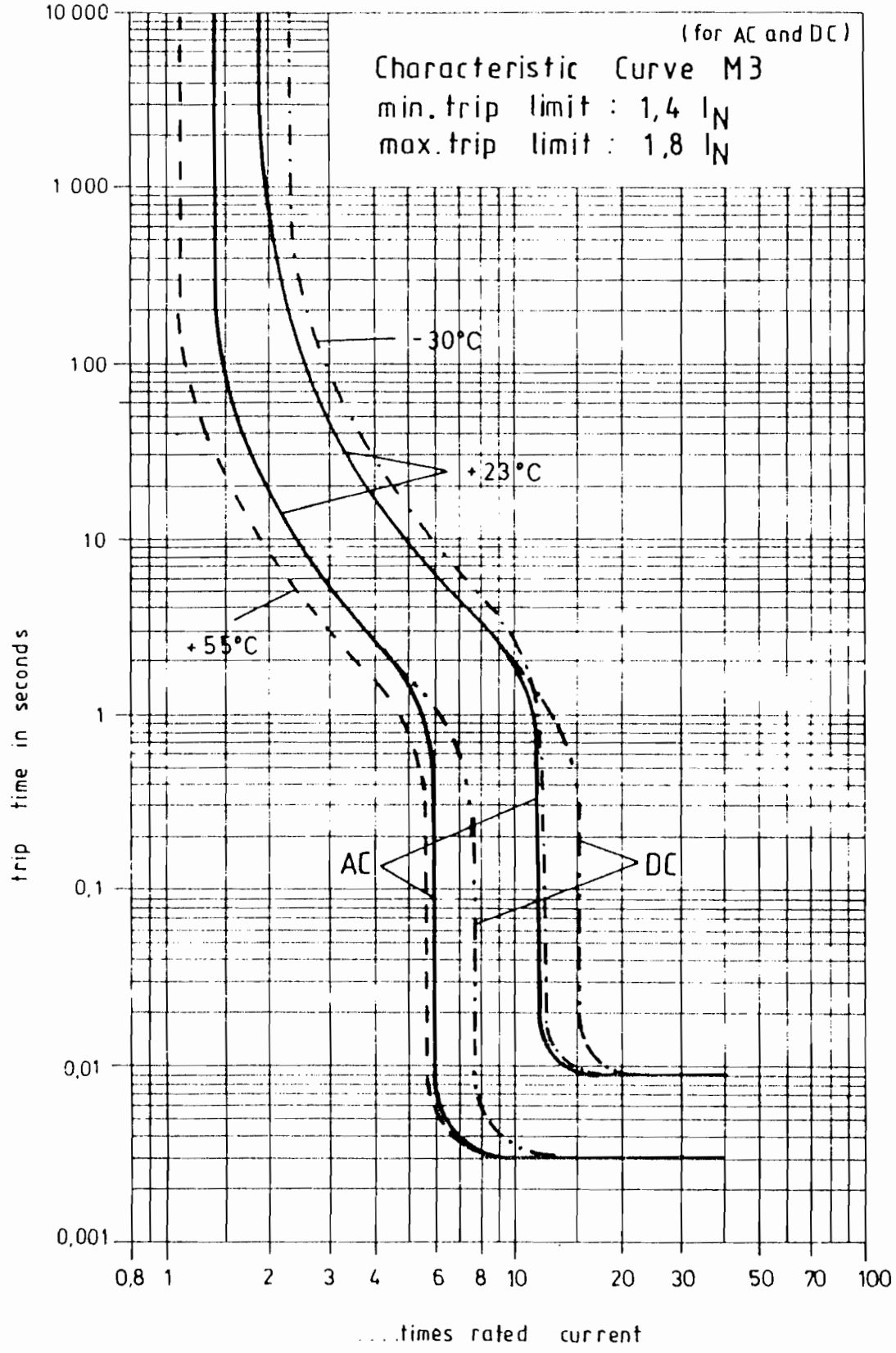
410.053.238 Bl 1

rated value : 0,05 - 55 A



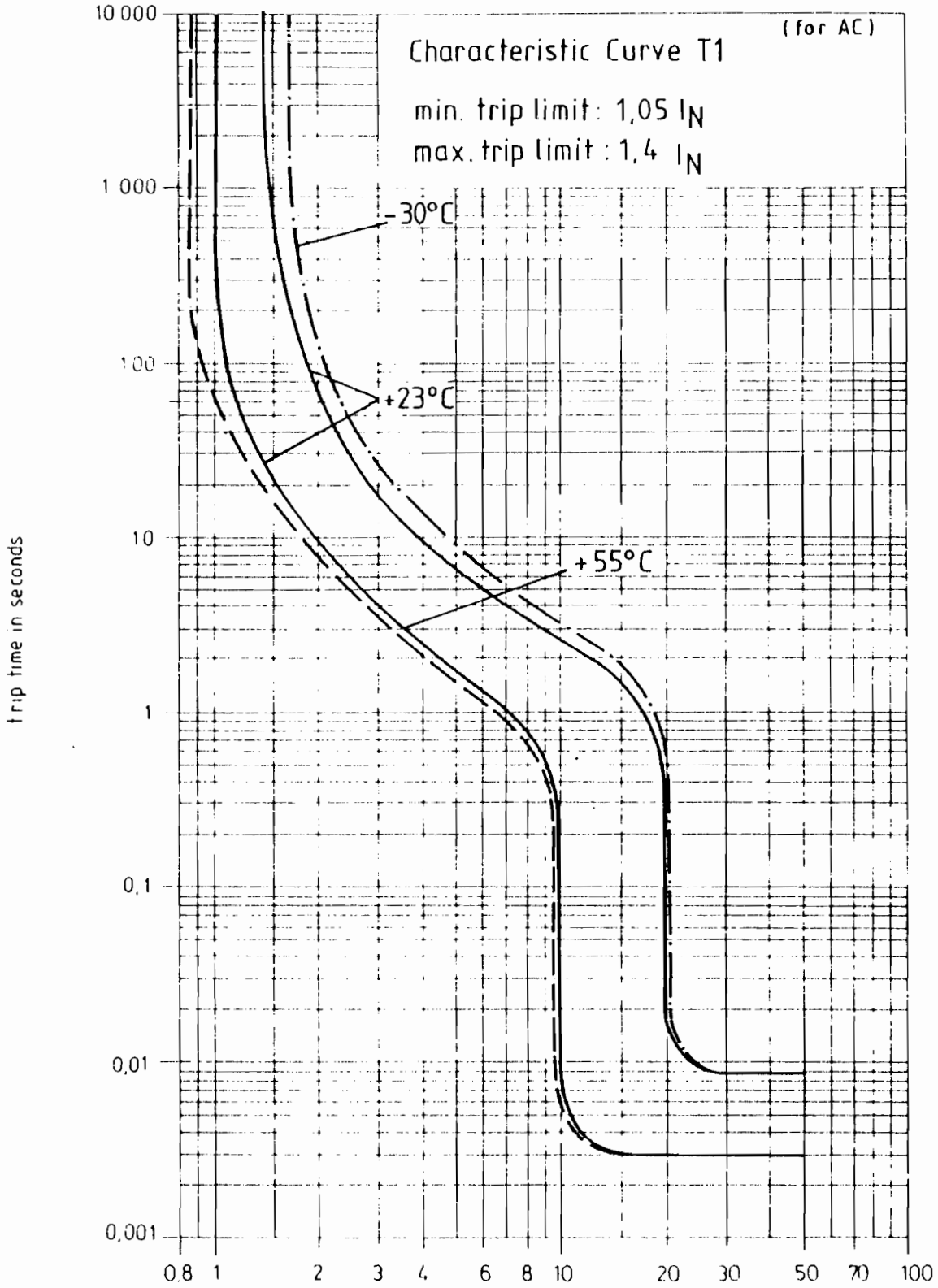
410 053 238 Bl. 2

rated value 6 – 16 A



410.053.217 Bl.1

rated value : 0,10-7,5 A

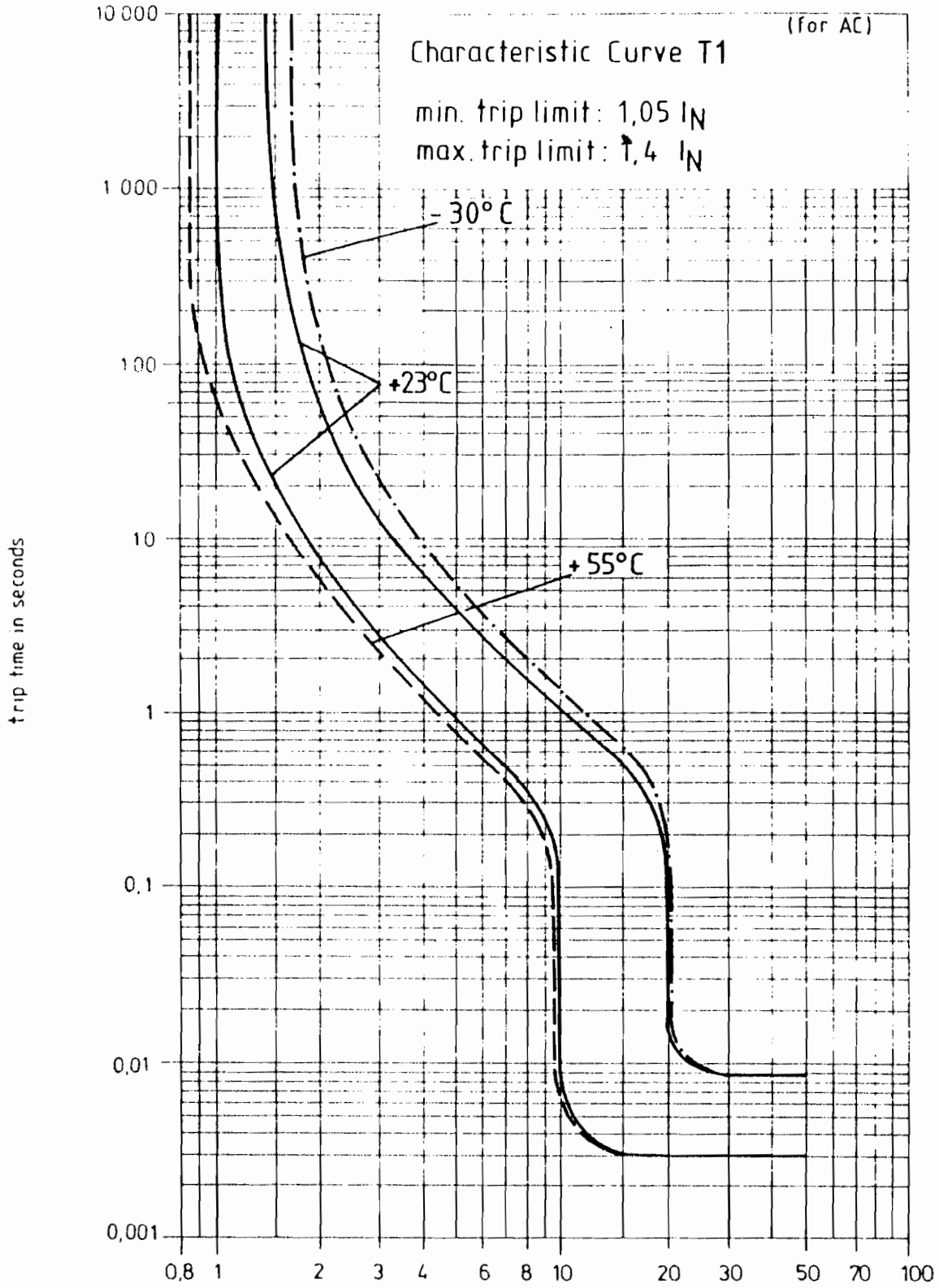


d	AM 11417	24.3.86	g	AM 12614	26.6.89	
e	AM 11656	6.11.86	h	Bl. 1,2,14,16	19.4.90	

8503 Altdorf bei Nürnberg, Germany

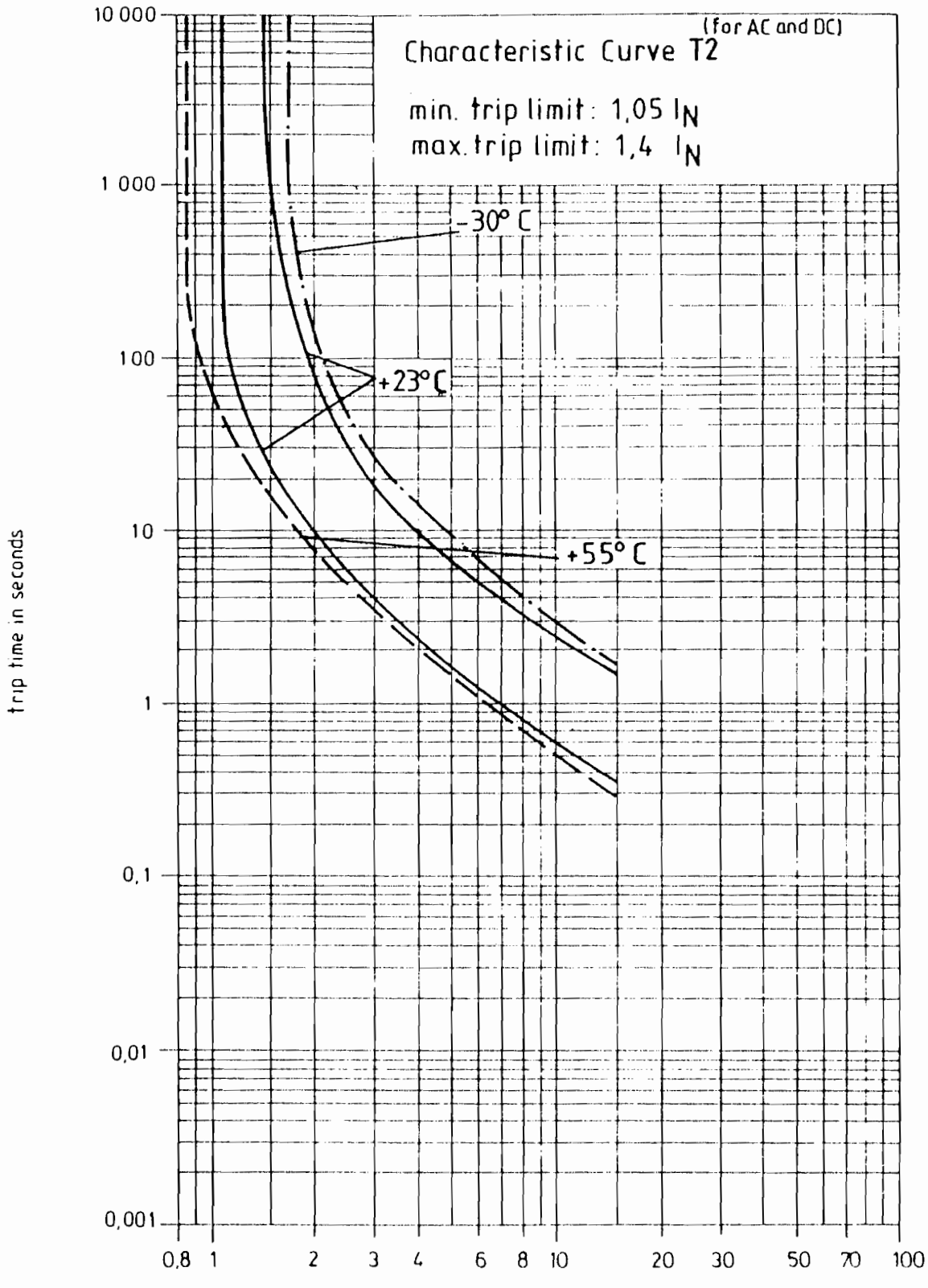
410 053217 BL 2

rated value 8-16 A



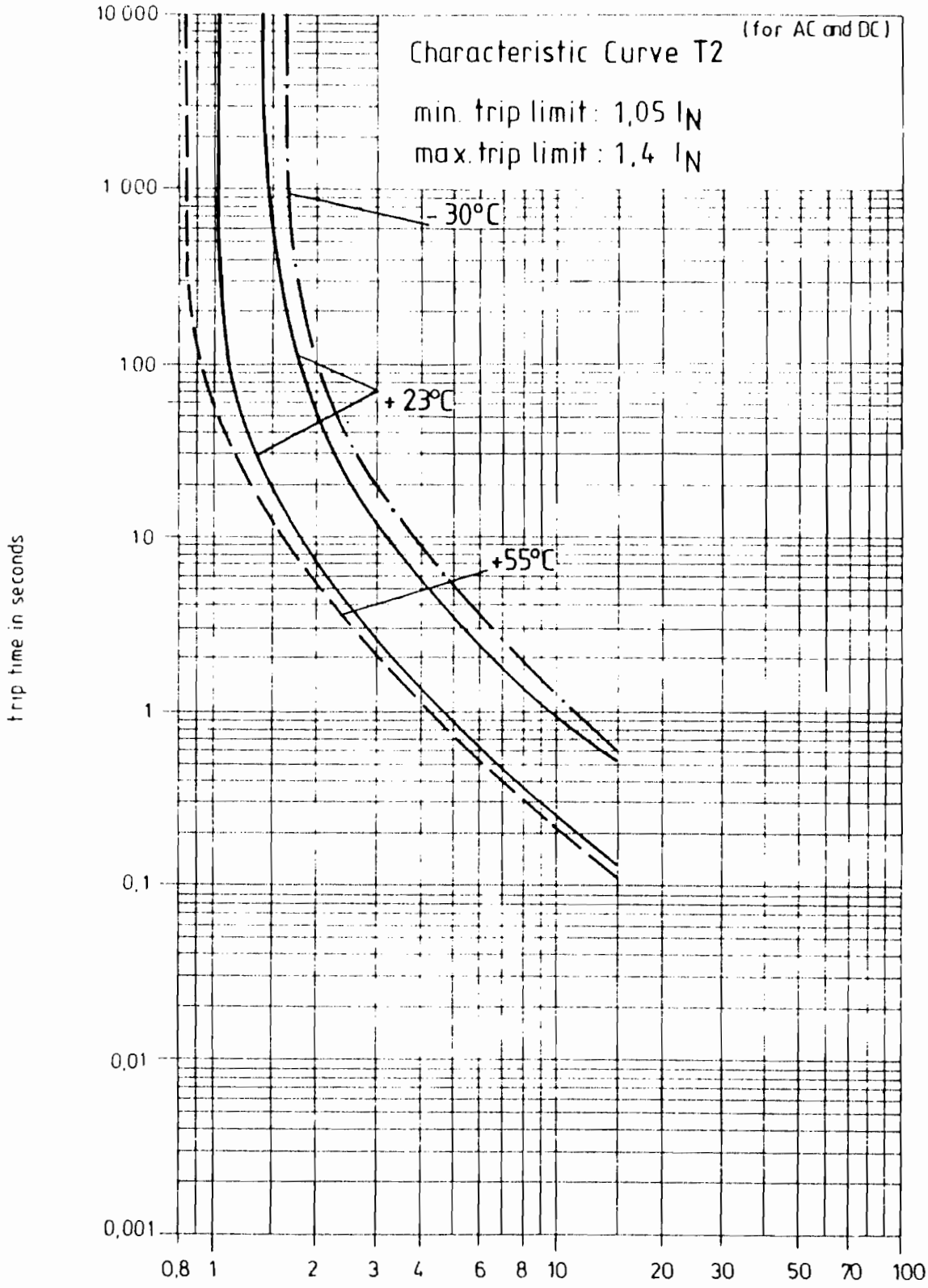
410.051.278 Bl. 1

rated value : 0,10 - 7,5 A



410 051 278 Bl. 2

rated value 8 - 16 A

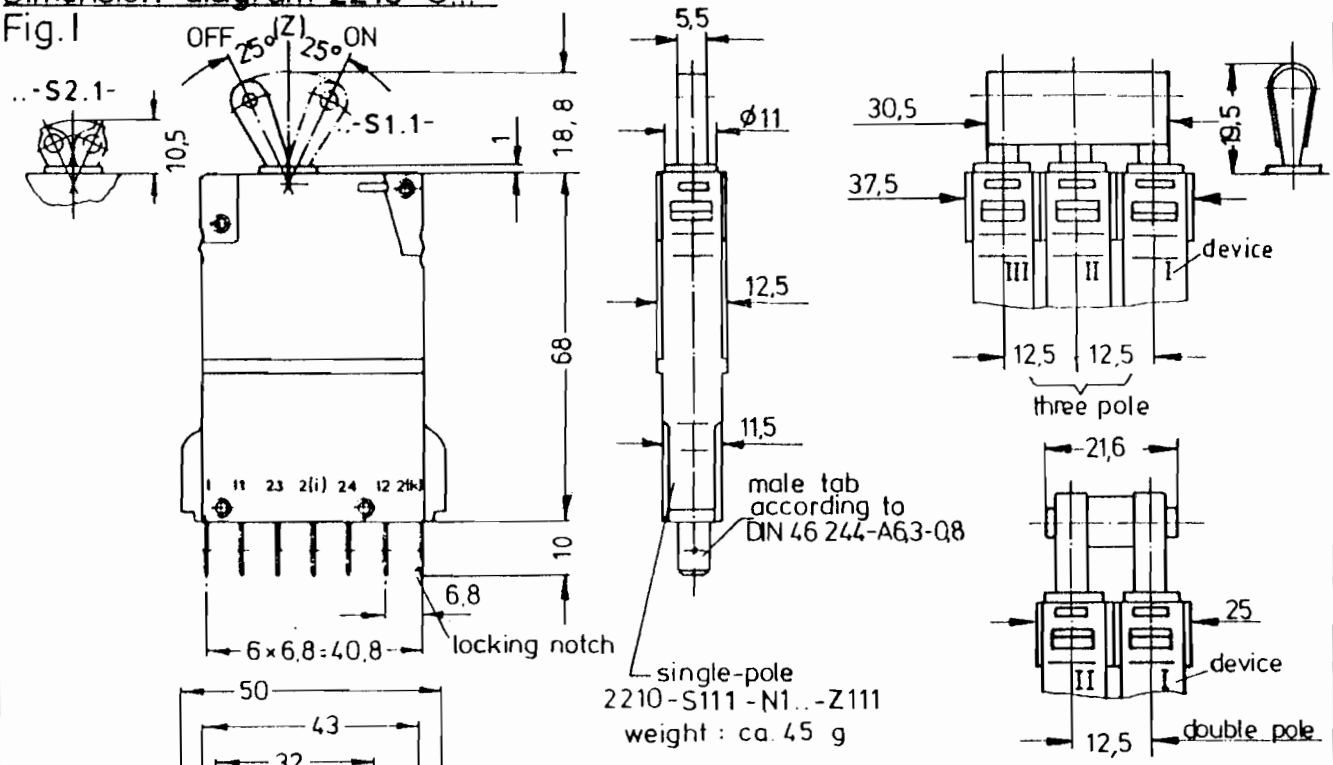


d	AM 11417	24.3.86	g	AM 12614	26.6.89	E-T-A Elektrotechnische Apparate GmbH

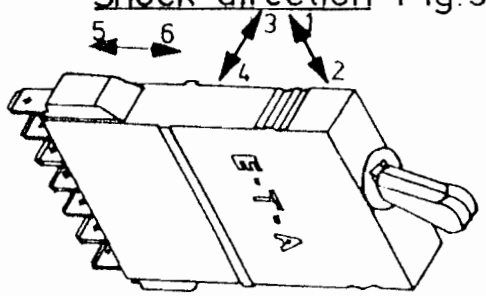
075 394

Dimension diagram 2210-S..-

Fig.1

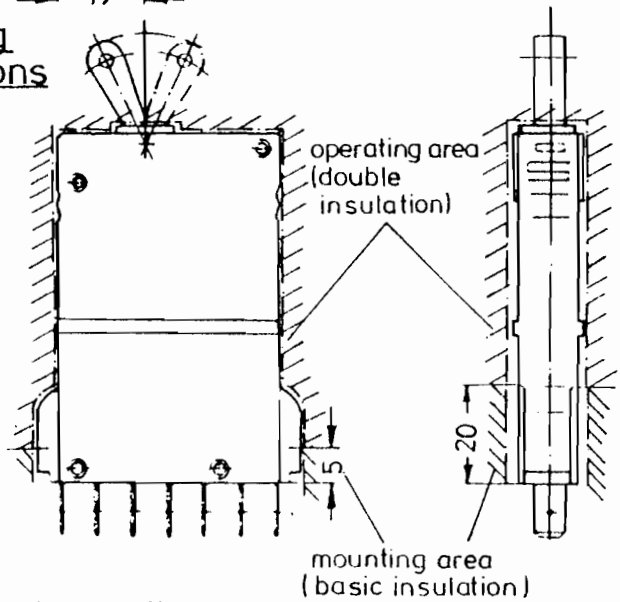


Shock direction Fig.3



Mounting Dimensions

Fig.2



Accessory

terminal blocks: 23-P10-Si
63-P10-Si
17-P10-Si

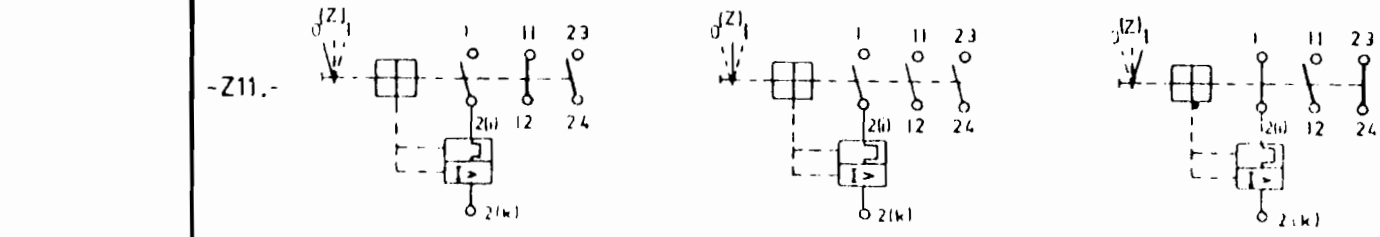
draw-off bow: Y 301 398 02

spring: Y 302 974 01 (for type 23,63)
Y 302 974 11 (for type 17)

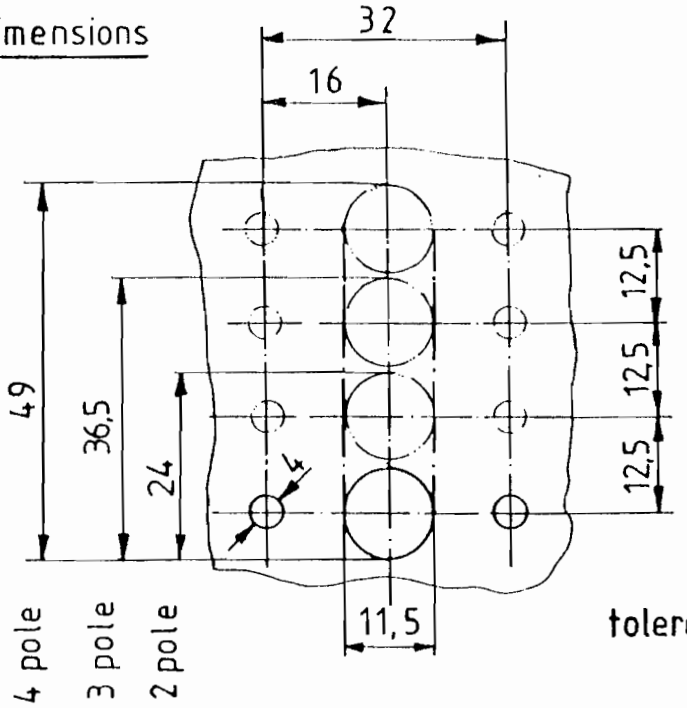
Splashcover

single pole	X 211 117 02
2 or 3 pole	X 211 118 01
4 pole	X 211 119 01

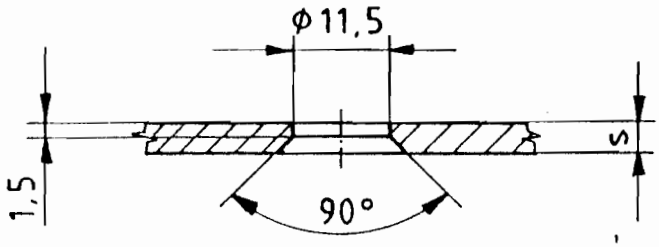
Internal wiring diagrams



Mounting dimensions
2210-S...



tolerances: DIN7168-m

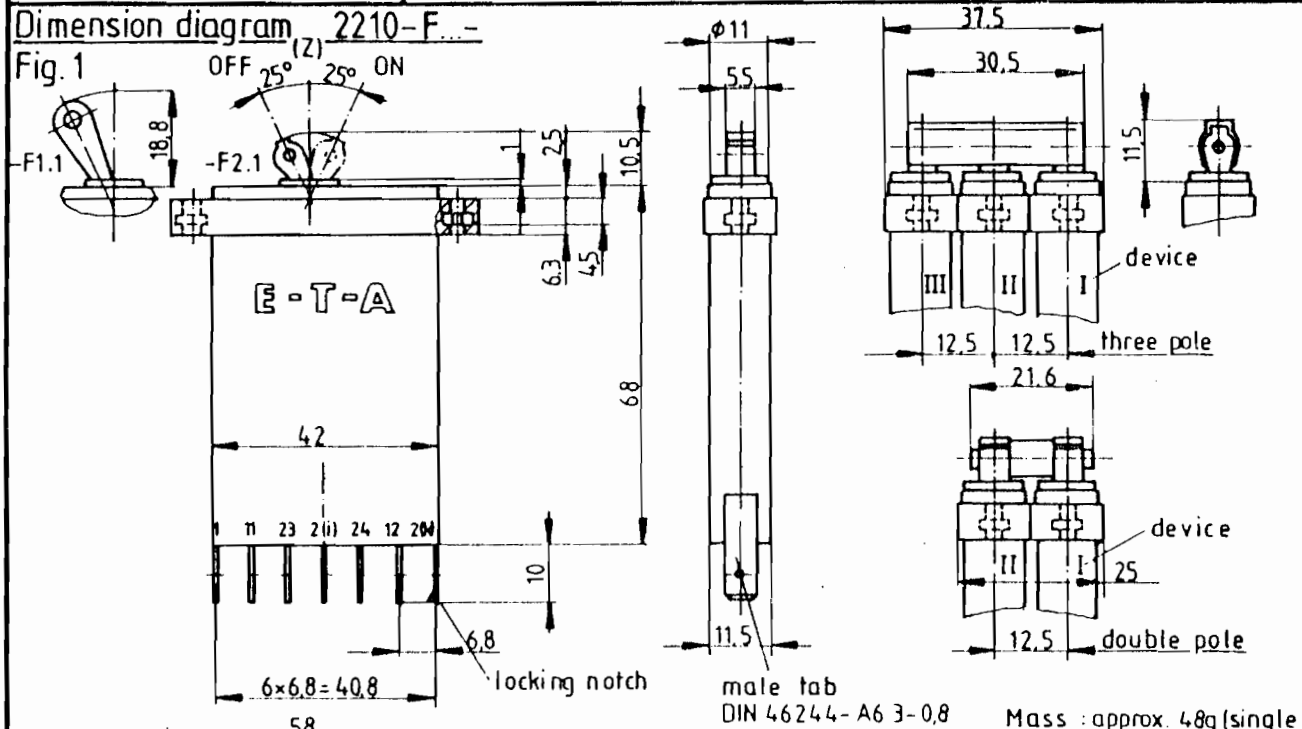


Recessed as shown if the front panel is > 1,5 mm

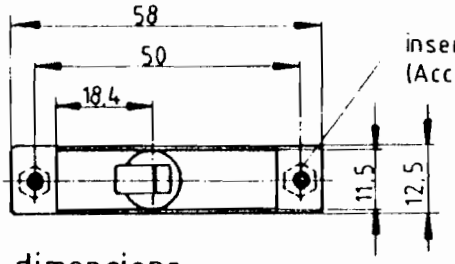
Mounting dimensions for devices with splash cover (accessory for 2210-S...-)
see dimensional drawing 281.023.310 (single pole)
281.023.311 (2or 3pole)
281.023.309 (4 pole)

Dimension diagram 2210-F...-

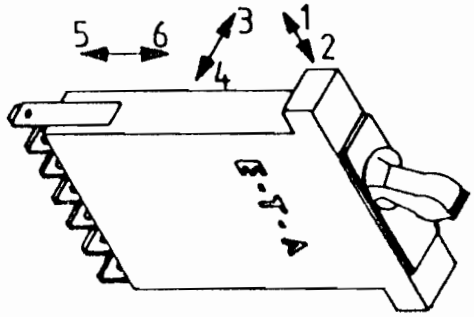
Fig. 1



Mass : approx. 48g (single pole)

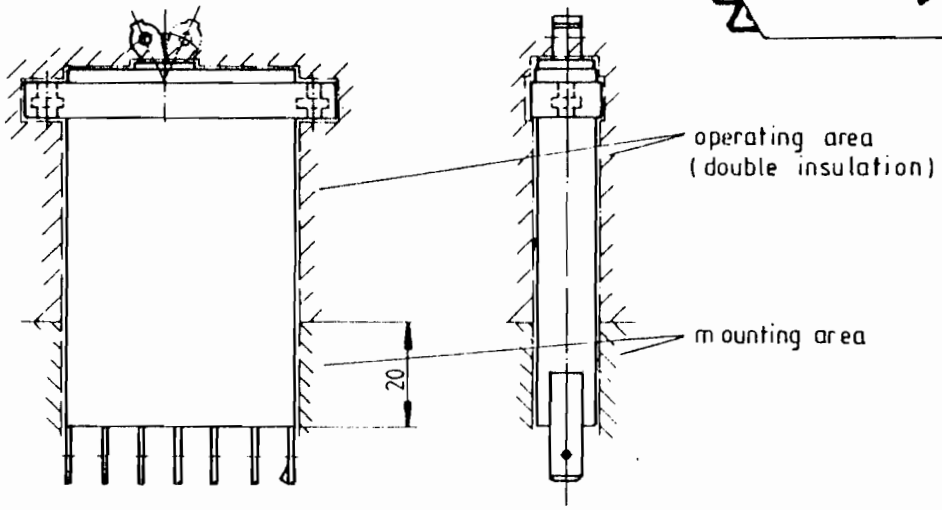


Shock direction Fig. 3

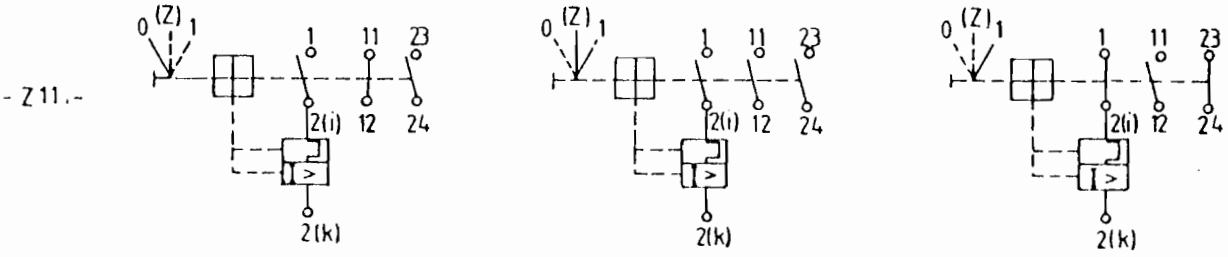


Mounting dimensions

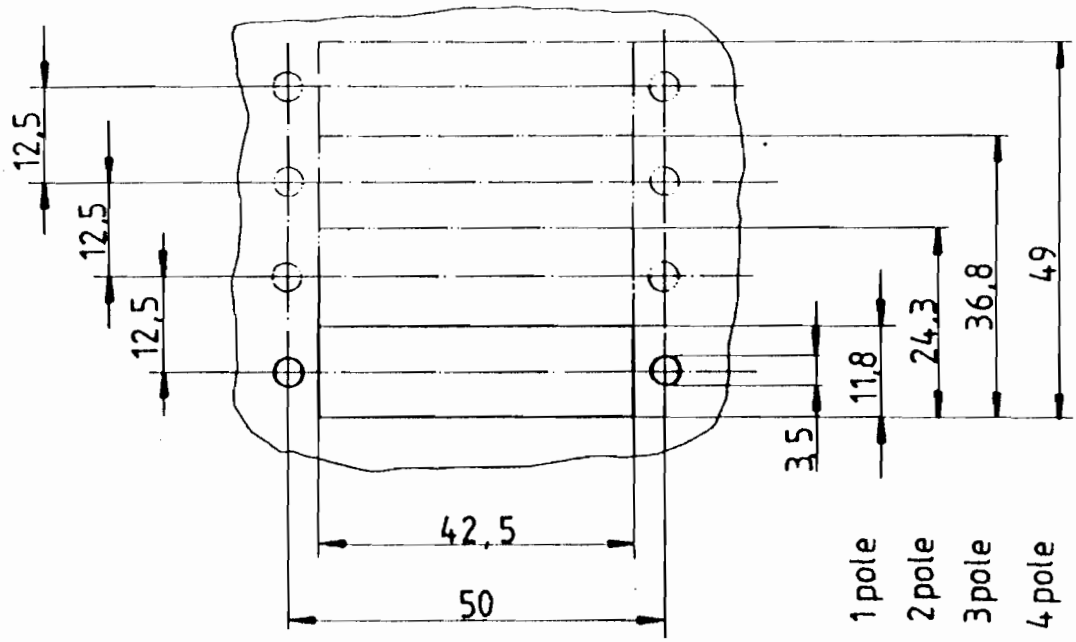
Fig. 2



Internal wiring diagram



Mounting dimensions 2210-F...



tolerances: DIN 7168-m

E-T-A®
ETA Elektrotechnische Apparate GmbH
D-8503 Altdorf bei Nuernberg (BRD)
Tel.:(09187)10-1 Telex 06-24461

Overcurrent Circuit Breaker

thermal and magnetic trip characteristic

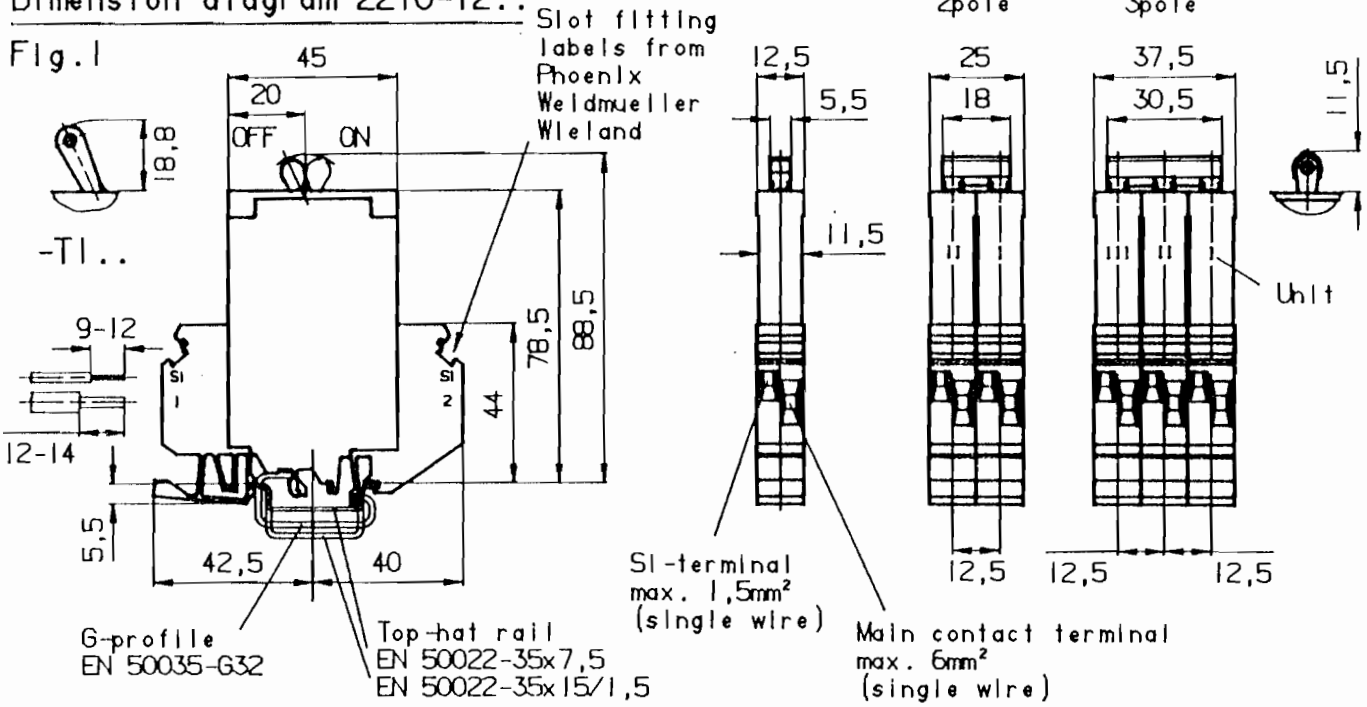
2210-...

Data Sheet

410.073.270

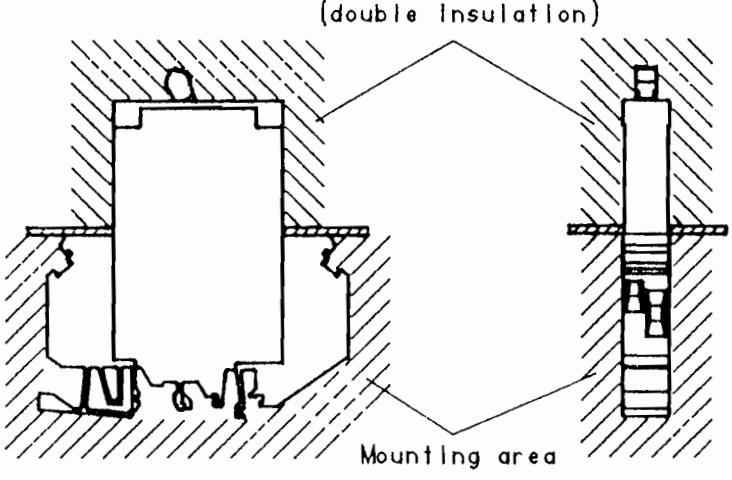
Dimension diagram 2210-T2..

Fig.1



Mounting dimensions

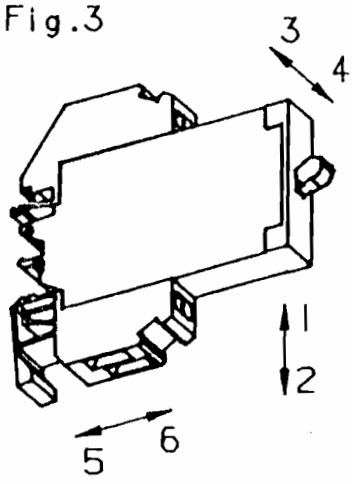
Fig.2



Mass (single pole): approx.60g

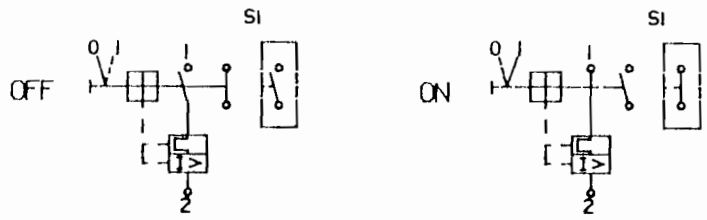
Shock direction

Fig.3



Internal wiring diagram

Signal contact: N/C or N/O



Name : St	Ersatz fuer : -	Reg.-Nr: -	Ae-Stand: - h

E-T-A®	2210-... Selectivity Rating	Appendix to Data Sheet 410.073.270

ETA Current rating (A)	Back-up fuse for characteristic curve F1	Selective up to ... A	Back-up fuse for characteristic curve M1	Selective up to ... A
0.1	M0.2	1.5	M0.63	4.7
0.2	M0.4	3.0	M1	7.5
0.3	M0.63	4.7	M1.6	12
0.4	M0.8	6.0	NH2	10
0.5	M1	7.5	NH2	10
0.6	M1.25	9.4	NH4	25
0.8	M1.6	12	NH4	25
1.0	NH2	15	NH4	25
1.5	NH4	35	NH6	50
2.0	NH4	35	NH10	100
2.5	NH6	60	NH10	100
3.0	NH6	60	NH10	100
4.0	NH10	110	NH16	200
5.0	NH10	110	NH16	200
6.0	NH10	110	NH20	250
8.0	NH16	200	NH25	380
10	NH16	200	NH25	380
12	NH20	300	NH35	580
16	NH25	350	NH35	580

h	AM 12909	19.4.90				ETA Elektrotechnische Apparate GmbH D-8503 Altdorf b. Nürnberg / Germany

59-0389 Bu

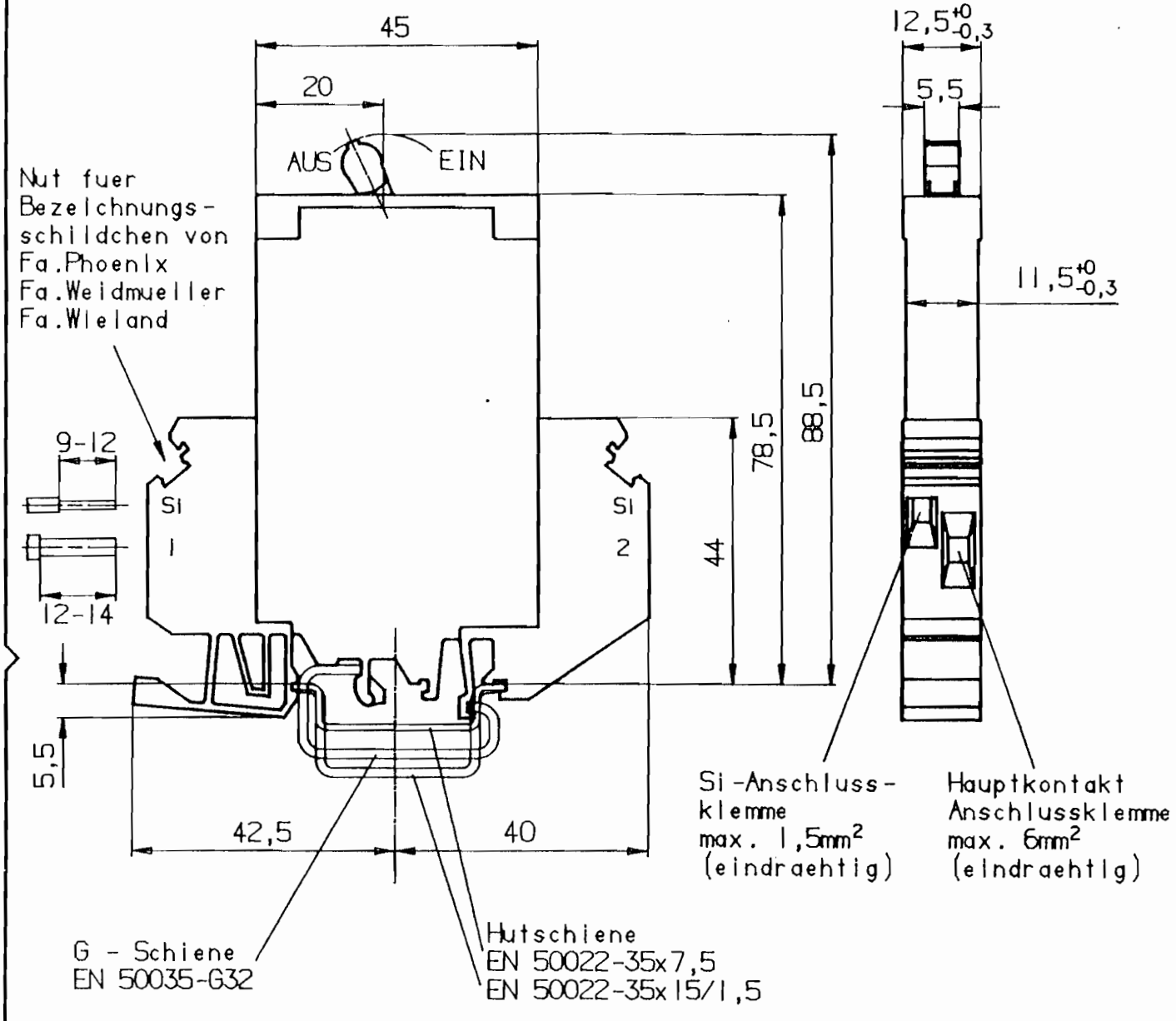
E-T-A®	2210-... Max. back-up fuse to ensure short-circuit protection	Appendix to Data Sheet 410.073.270

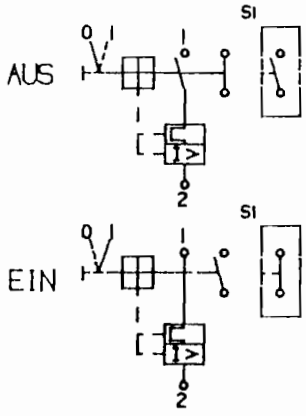
ETA Current rating (A)	Back-up fuse (DIN57636) rating (A)	Selective up to ... A
0.1	} optional	
0.2		
0.3		
0.4		
0.5		
0.6		
0.8	4	25
1.0	4	25
1.5	6	50
2.0	6	50
2.5	6	50
3.0	10	100
4.0	10	100
5.0	16	200
6.0	20	250
8.0	25	380
10.0	35	580
12.0	35	580
16.0	35	580

E-T-A®
ETA Elektrotechnische Apparate GmbH
D-8503 Altdorf bei Nuernberg (BRD)
Tel.:(09187)10-1 Telex 06-24461

E-T-A Magnetic
2210-T...-...

Massbild
410.025.207
Blatt 1 von 1





Signalkontakt:
Oeffner oder
Schliesser

M 1:1

Name: St	Ersatz fuer : gl.Nr.v.01.02.90	Reg.-Nr: -	Ae-Stand: -